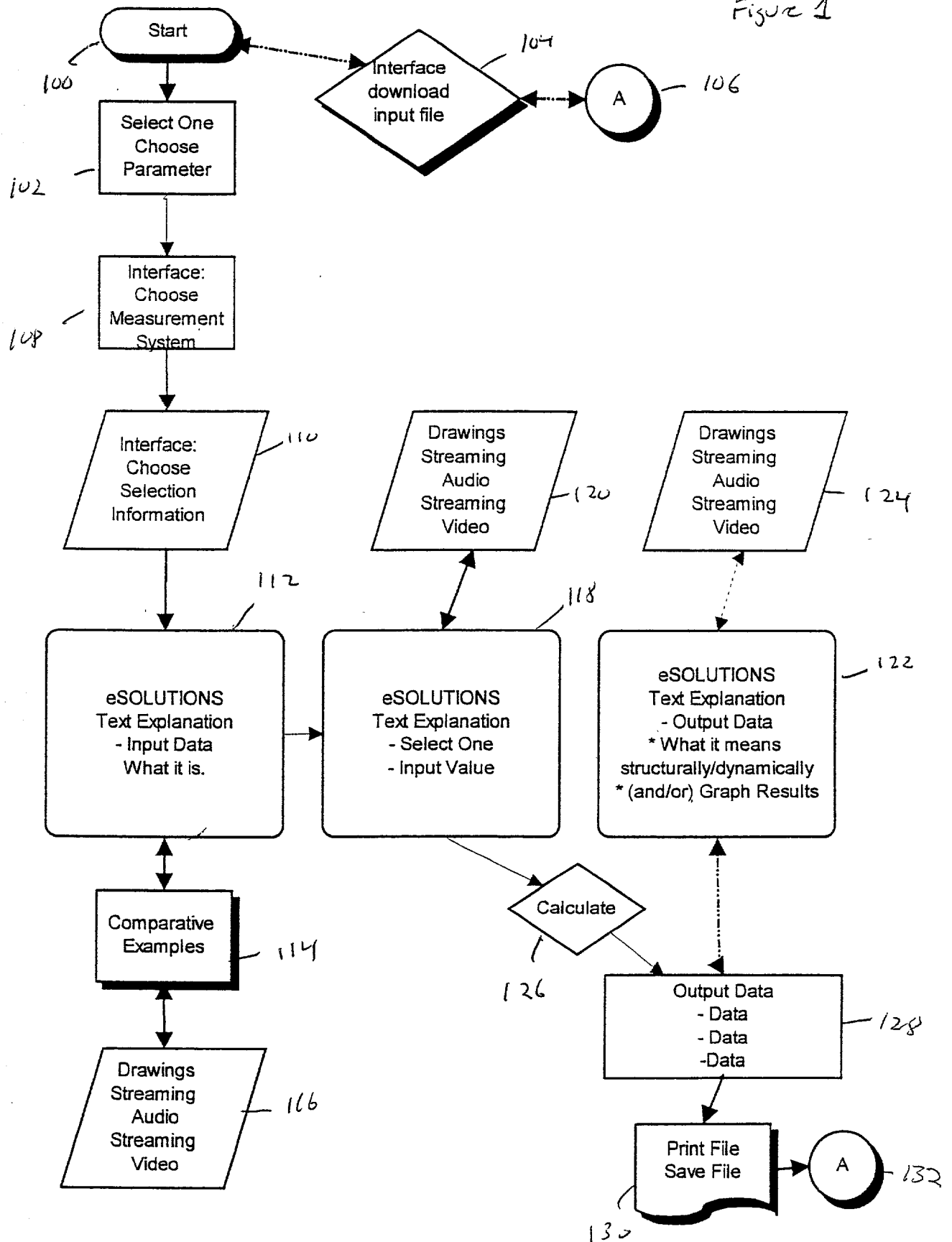
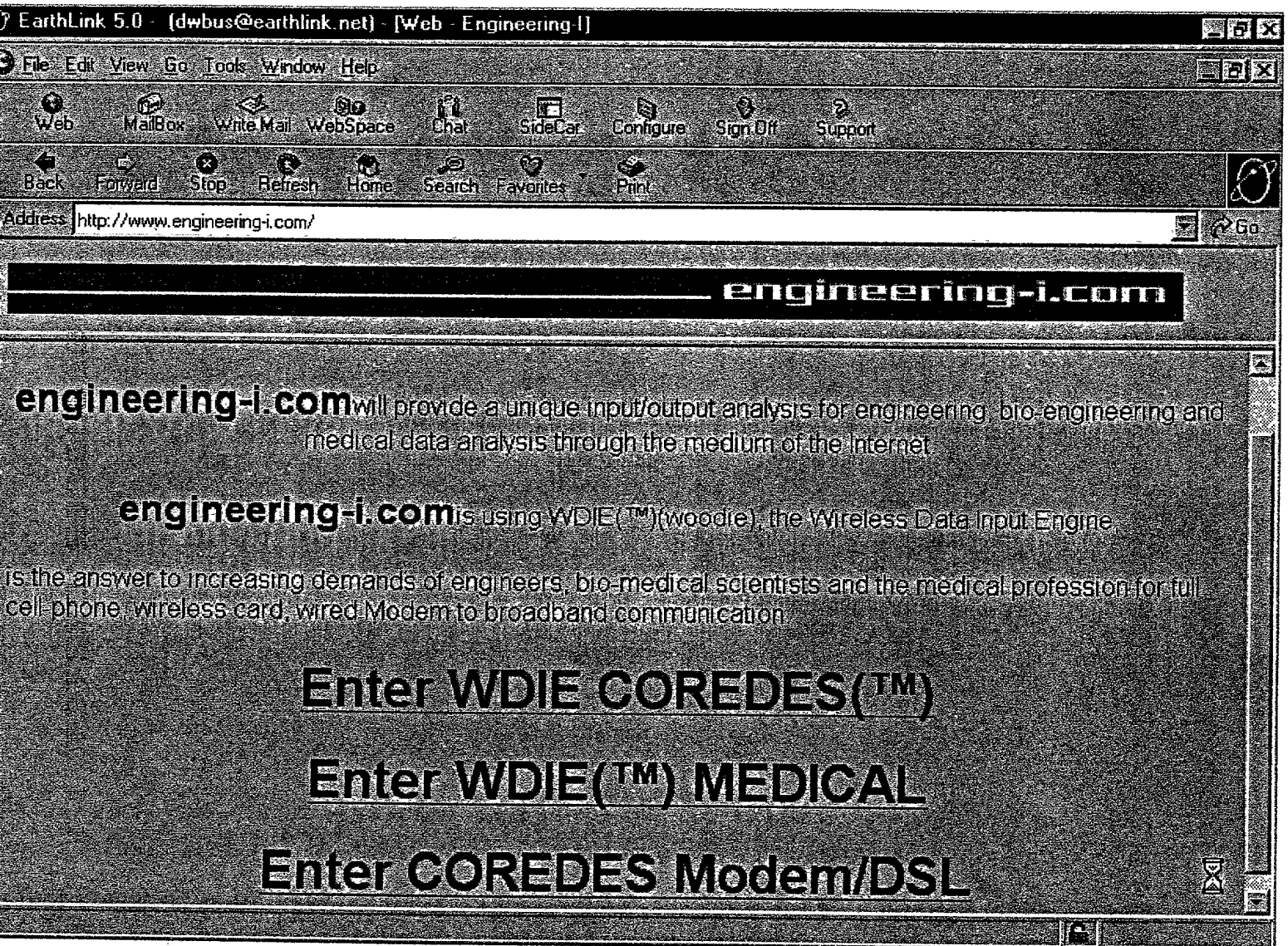
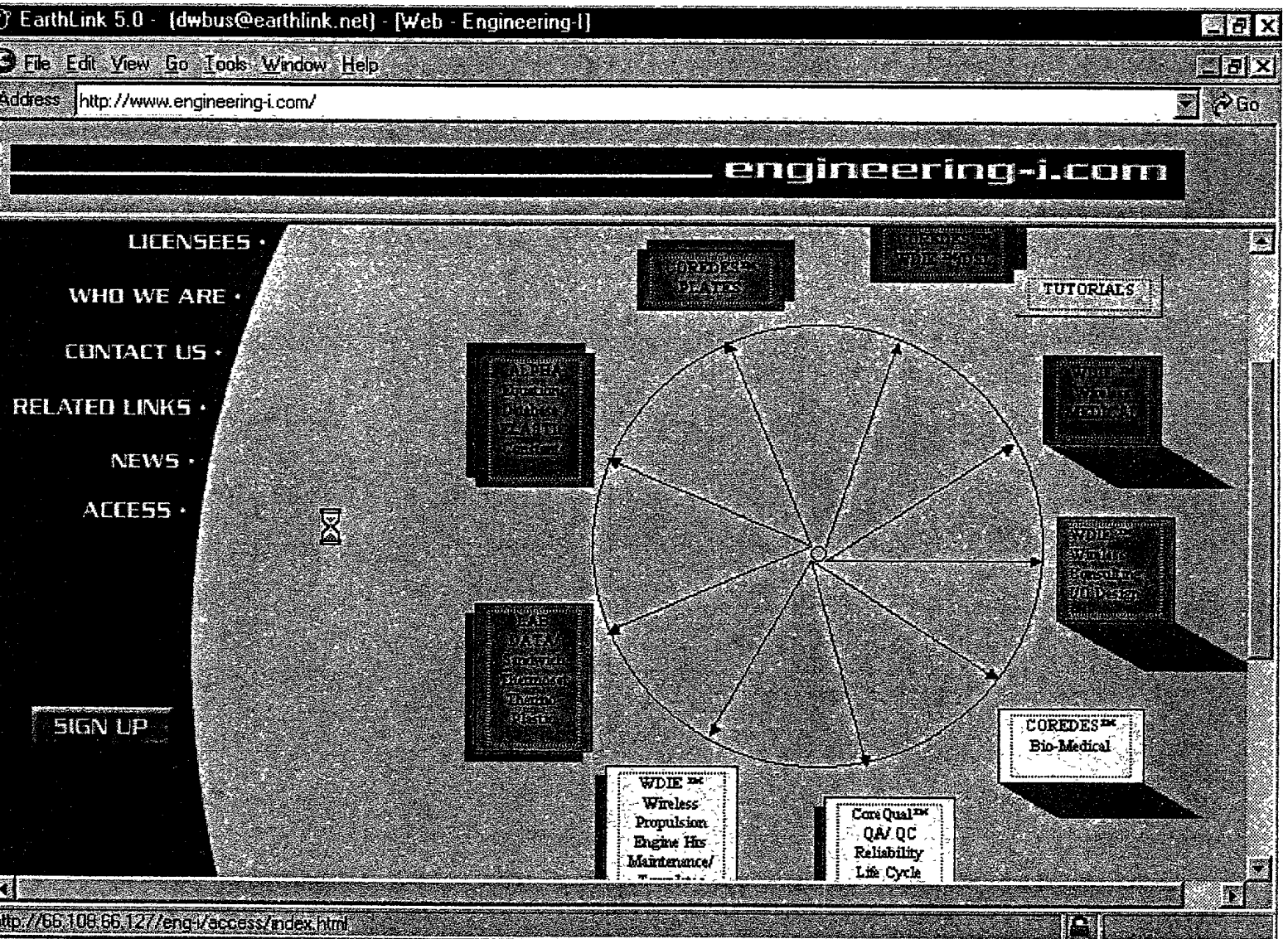


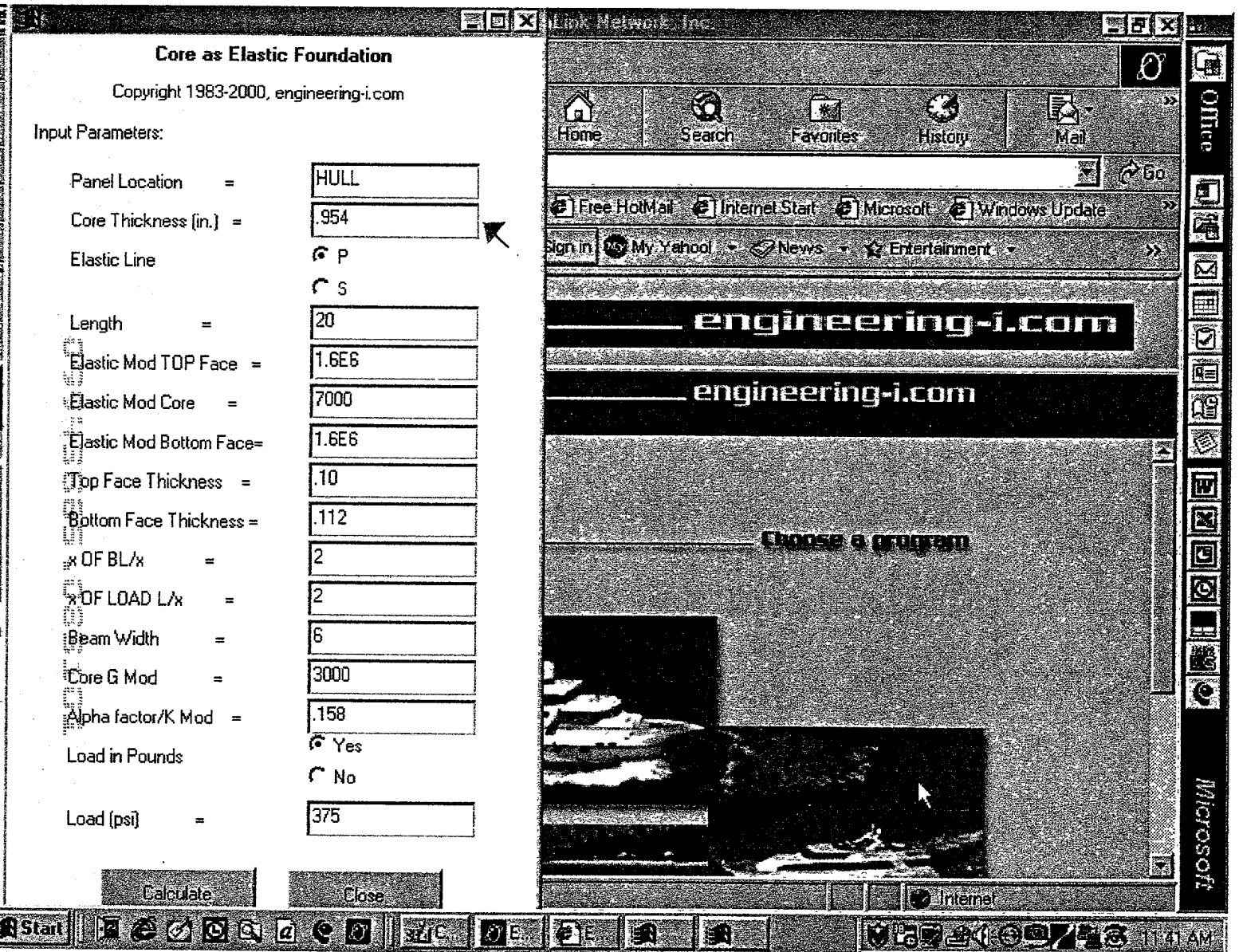
Figure 1











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Sailboat
PL Moment
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Elas Lim2
Abs Sand
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SOLUTIONS

- Panel location
- Core Thickness**
- Elastic Line
- Length
- Elastic MOD Top Face
- Elastic MOD Core
- Elastic MOD Bott Face
- Top Face Thickness
- Bott Face Thickness
- x of BL/x
- x of LOAD/x

Measurement system **Input value**

Core Thickness English

CALCULATE

OUTPUT DATA

Top Skin Compressive Stress =
Bottom Skin Tensile Stress =
Core Shear Stress =
Beam Deflection =

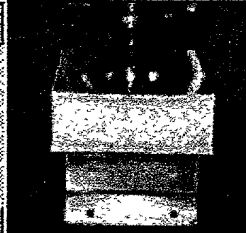


FIG. 7

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SOLUTIONS

Input values for each parameter:
* Determine sandwich materials
* Choose dimensions from plan
* Determine Alpha from Database
* Determine EMod. from Lab Data
Press: CALCULATE - Output Table

Select One: Core Thickness Measurement system: English Input value:

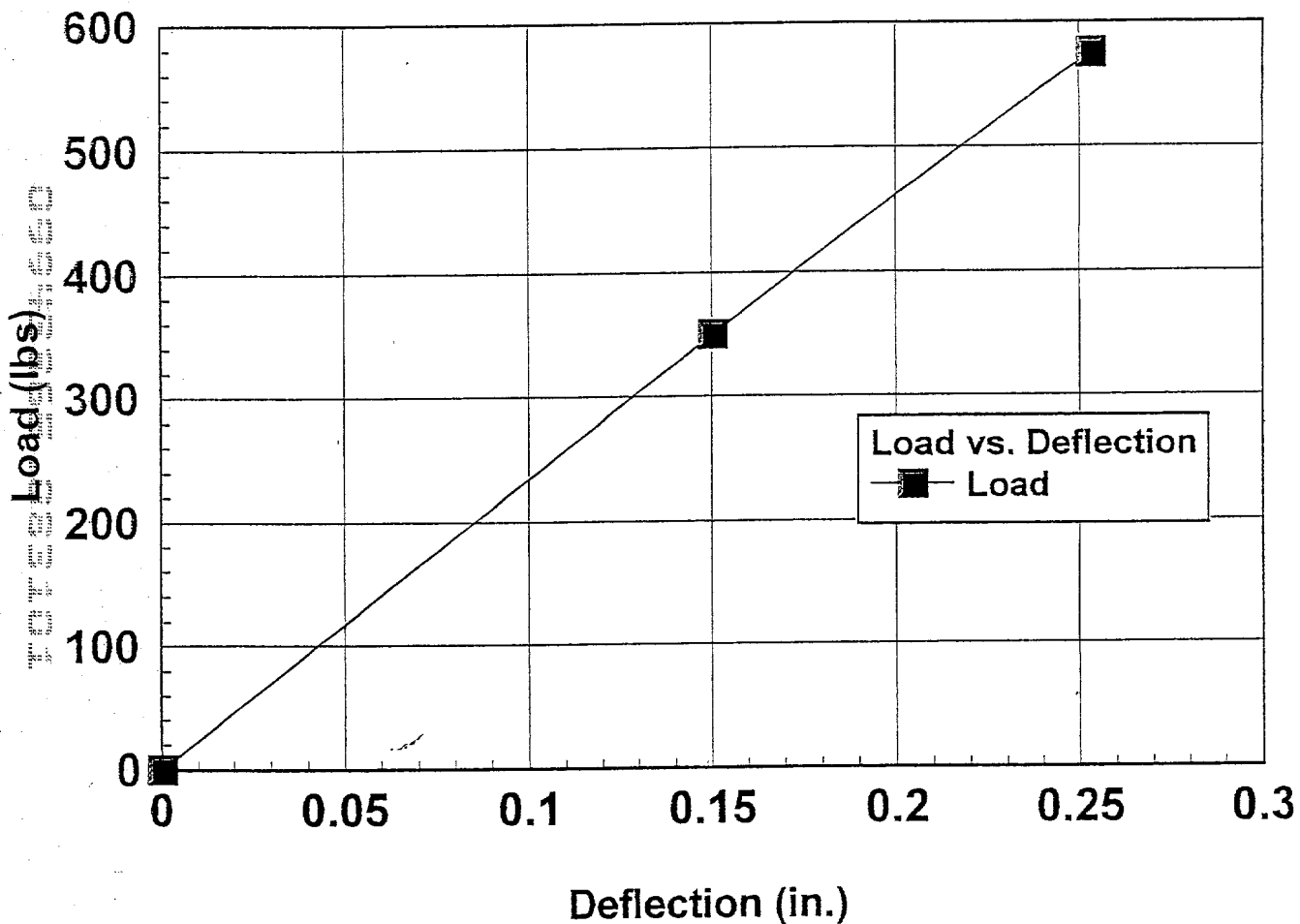
CALCULATE

OUTPUT DATA

Top Skin Compressive Stress =
Bottom Skin Tensile Stress =
Core Shear Stress =
Beam Deflection =

Fig. 8

Graph Load vs. Deflection Elastic Curve for the Designed Materials



Note: When compressive stress is plotted, the values for the elastic limits can be drawn on this curve.

FIG. 9

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COLLECTION

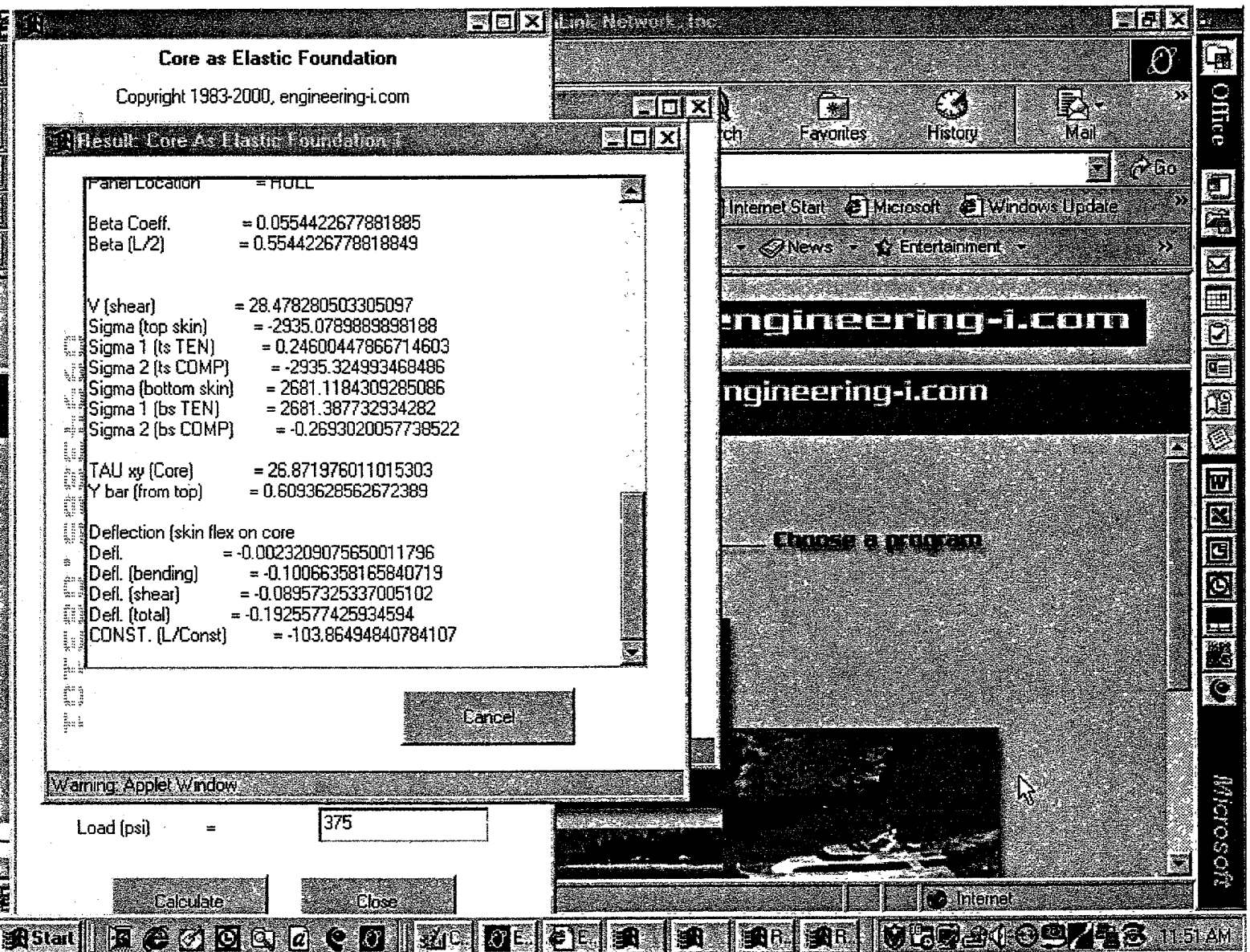
Panel location
Core Thickness
Elastic Line
Length
Elastic MOD Top Face
Elastic MOD Core
Elastic MOD Bott Face
Top Face Thickness
Bott Face Thickness
x of BL/x
x of LOAD/x
Core Thickness

Measurement system: English
Input value: 1.00"

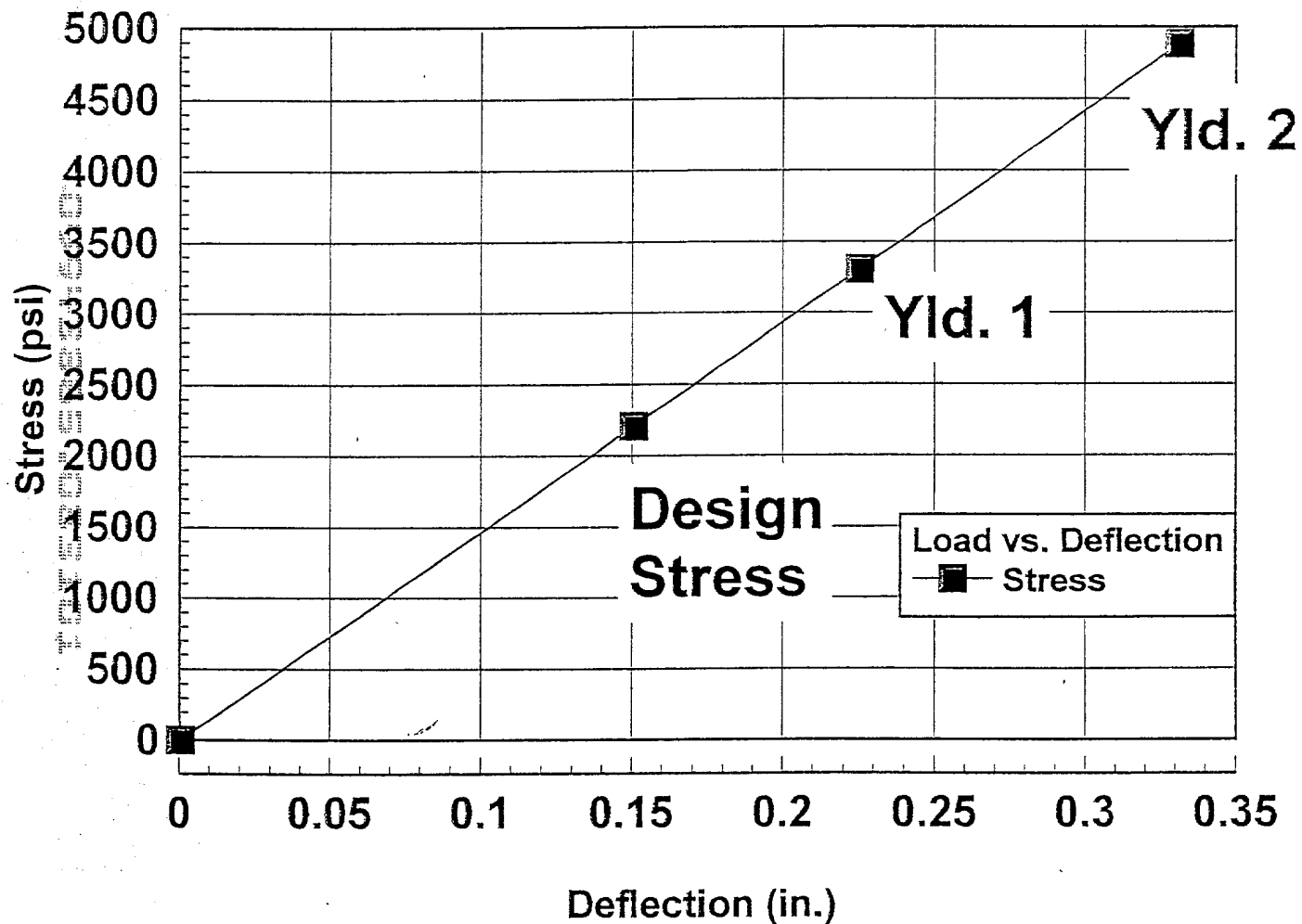
CALCULATE

OUTPUT DATA

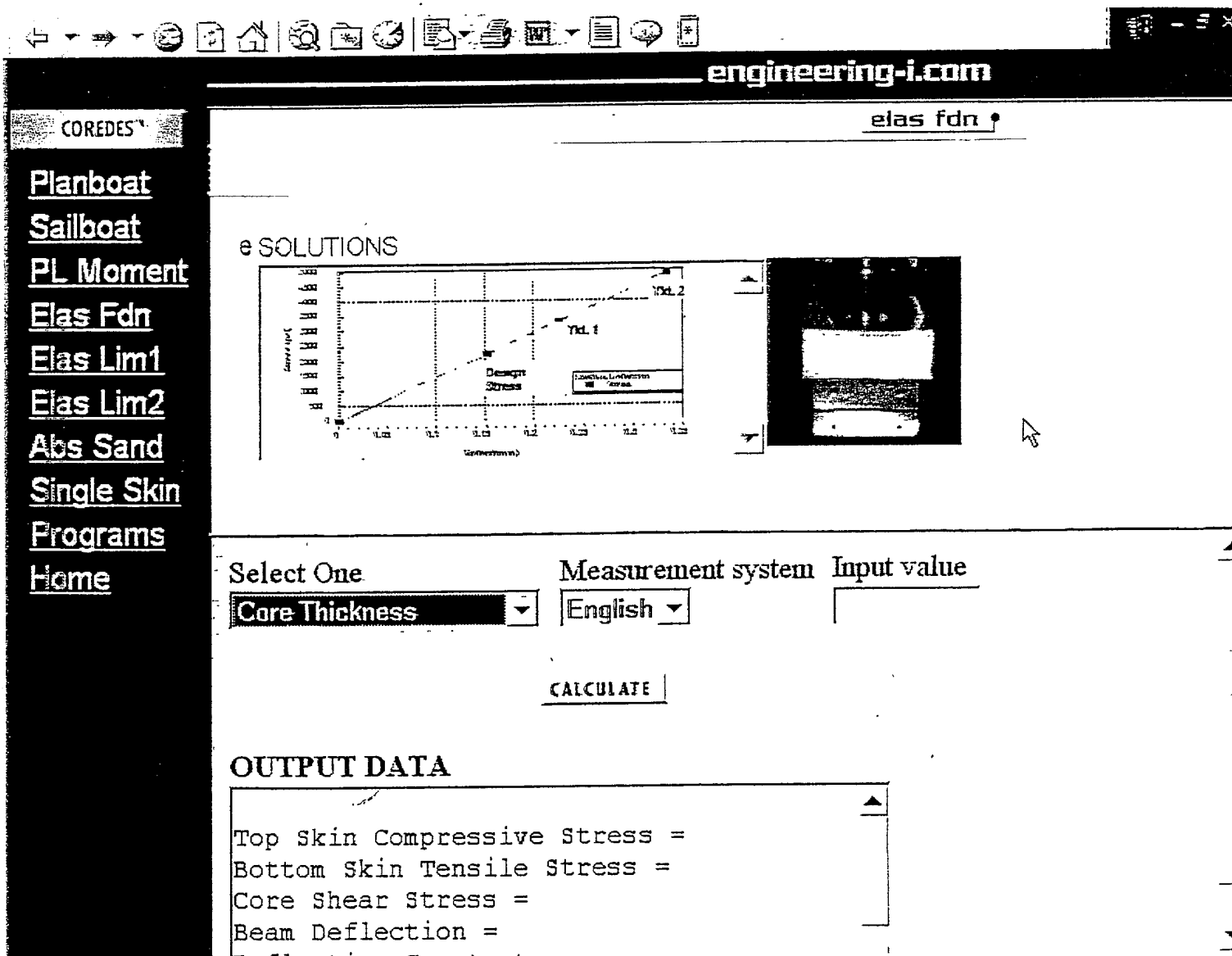
Top Skin Compressive Stress =	2203.3 psi
Bottom Skin Tensile Stress =	0.269 psi
Core Shear Stress =	24.4 psi
Beam Deflection =	0.150 "

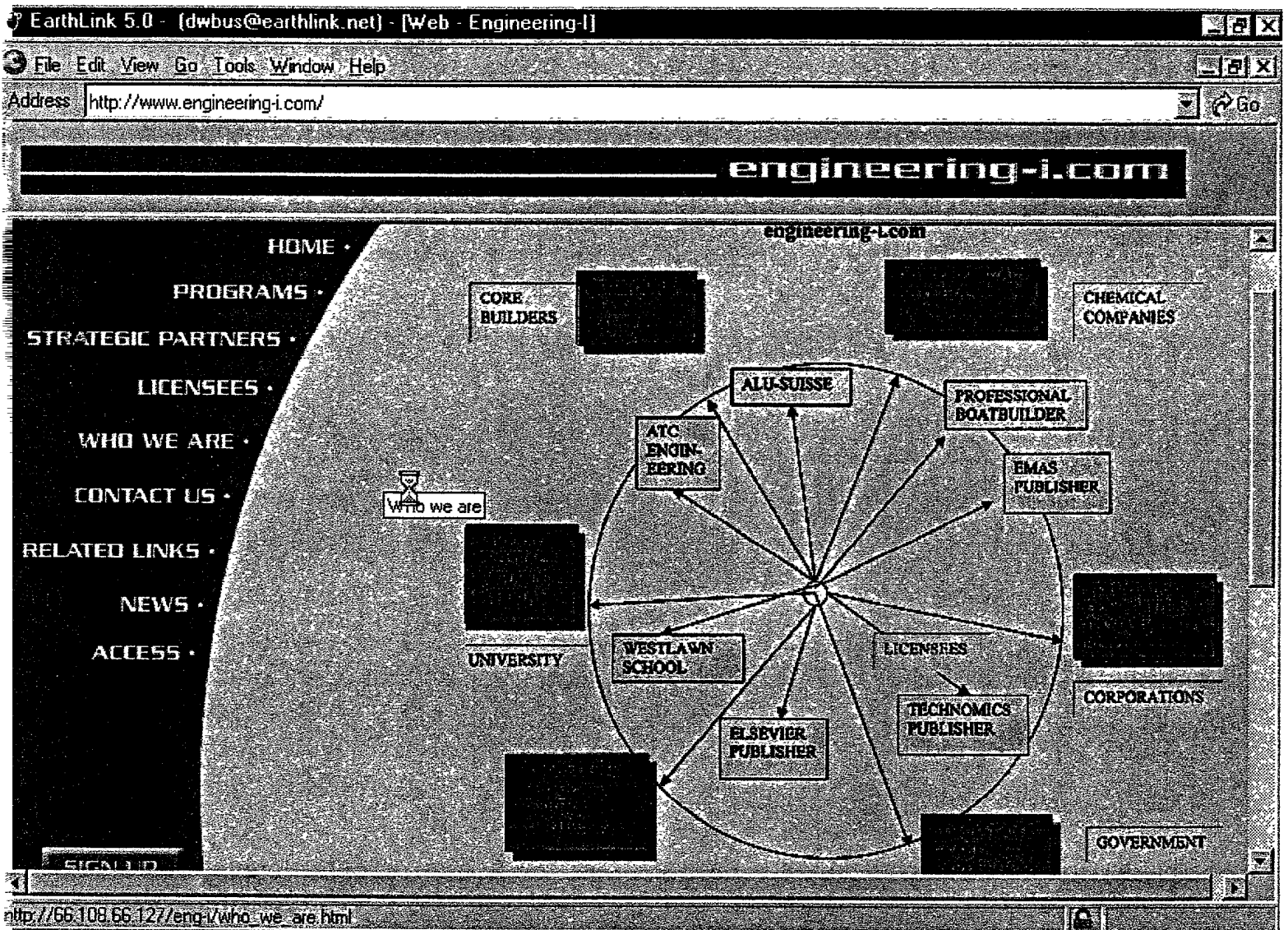


Graph Load vs. Deflection Elastic Curve for the Designed Materials



Note: Yield 1 is the primary stress limit,
Yield 2 is the limit of the design regime.
The Design stress has a Factor of Safety
of 2.22 on stress at Yield 2.





debbiewb
08/29/01 11:38:22

Fig. 14

